WHAT IS CLAIMED IS:

- 1. An apparatus for re-transmitting erroneous packet data in a communication system, comprising:
 - a buffer coupled to store transmitted data;
 - a controller configured to control the buffer to allow a data re-transmission
- 5 function to be carried out; and
 - a radio frequency unit configured to transmit the data.
 - 2. The apparatus of claim 1, wherein the buffer, the controller, and the radio frequency unit operate in a physical layer.
 - 3. The apparatus of claim 1, wherein the buffer is adapted to store a final data frame.
 - 4. The apparatus of claim 1, wherein the controller is adapted to transmit only data that has been previously transmitted with errors.
 - 5. The apparatus of claim 1, wherein the communication system is a wireless local loop.

- 6. The apparatus of claim 1, wherein the data is re-transmitted from the buffer after a prescribed period of time if no acknowledgment of the transmitted data has been received.
- 7. The apparatus of claim 6, wherein the transmitted data stored in the buffer is stored as a final date frame in a physical layer.
- 8. The apparatus of claim 6, wherein the data is re-transmitted from the buffer before the expiration of the prescribed period of time if a negative acknowledgment is received.
- 9. The apparatus of claim 1, further comprising a timer configured to initiate a countdown when the data is transmitted, wherein the countdown of the timer is stopped and reset if an acknowledgment of the transmitted data is received before the timer expires.
- 10. The apparatus of claim 1, wherein the transmitted data stored in the buffer is re-transmitted from the buffer if a negative acknowledgment is received.

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- 11. The apparatus of claim 10, wherein the transmission data stored in the buffer is stored as a final data frame in a physical layer.
 - 12. A method for re-transmitting erroneous packet data, comprising:
 - (a) transmitting data while storing the data in a buffer on a physical layer;
- (b) re-transmitting the data stored in the buffer if no acknowledgment signal is received within a prescribed period of time or if a negative acknowledgment signal is received.
 - 13. The method of claim 12, wherein step (b) comprises:

terminating the re-transmission procedure if an acknowledgment signal is received; and

repeatedly checking whether or not the acknowledgment signal is received, until the prescribed period of time elapses if no acknowledgment signal is received.

- 14. The method of claim 12, wherein step (b) is repeatedly carried out until the acknowledgment signal is received.
- 15. The method of claim 14, wherein a timer tracks the prescribed period of time and is reset when the data is re-transmitted or when an acknowledgment is received.

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- 16. The method of claim 12, wherein the buffer is adapted to store a final data frame.
- 17. The method of claim 16, wherein the re-transmission of the final data frame from the buffer occurs on the physical layer.
- 18. The method of claim 12, wherein the data re-transmission is made only for data involving errors.
- 19. The method of claim 12, wherein the data is transmitted in a wireless local loop.
- 20. A method of re-transmitting data in a communication system, comprising:

 transmitting data from a transmitting terminal on a physical layer;

 storing the transmitted data in a physical layer buffer of the transmitting terminal; and

re-transmitting the stored data from the buffer if the transmission is faulty.

21. The method of claim 20, wherein the transmitted data is stored as final data frame.

- 22. The method of claim 20, wherein the stored data is re-transmitted if receipt of the data is not acknowledged within a prescribed period of time.
- 23. The method of claim 22, wherein the stored data is re-transmitted if a negative acknowledgment is received during the prescribed period of time.
- 24. The method of claim 20, wherein the communication system is a wireless local loop.